

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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**BAYERISCHE MOTOREN WERKE AKTIENGESELLSCHAFT &  
BMW OF NORTH AMERICA, LLC,**  
Petitioners

v.

**PAICE LLC & THE ABELL FOUNDATION, INC.**  
Patent Owners

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*Inter Partes* Review No.: IPR2020-01386

U.S. Patent No. 7,237,634 K2

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**REPLY DECLARATION OF DR. GREGORY W. DAVIS**

**BMW v. Paice, IPR2020-01386**  
**BMW 1088**

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## LIST OF EXHIBITS

Exhibit No.	Description of Exhibit
BMW1001	U.S. Patent No. 7,237,634, including <i>Inter Partes</i> Review Certificates issued as U.S. Patent No. 7,237,634 K1 and U.S. Patent No. 7,237,634 K2
BMW1002	USPTO Assignments on the Web for U.S. Patent No. 7,237,634 K2
BMW1003- BMW1007	Reserved
BMW1008	Declaration of Dr. Gregory W. Davis in Support of <i>Inter Partes</i> Review of U.S. Patent No. 7,237,634 K2
BMW1009	<i>Curriculum Vitae</i> of Dr. Gregory W. Davis
BMW1010	Reserved
BMW1011	<i>Ford Motor Co. v. Paice LLC</i> , IPR2014-00884, Paper 38, Final Written Decision (P.T.A.B. Dec. 10, 2015)
BMW1012	File History for U.S. Patent No. 7,104,347 K2
BMW1013	U.S. Patent No. 5,343,970 (“Severinsky” or “Severinsky ’970”)
BMW1014- BMW1019	Reserved
BMW1020	U.S. Patent No. 6,188,945 (“Graf”)
BMW1021	International Application Publication No. WO 92/15778 (“Ma”)
BMW1022	U.S. Patent No. 5,650,931 (“Nii”)
BMW1023	<i>Innovations in Design: 1993 Ford Hybrid Electric Vehicle Challenge</i> , Society of Automotive Engineers, SAE/SP-94/980, Davis, G.W. et al., “United States Naval Academy, AMPhibian” (Feb. 1994), 277-87
BMW1024	<i>1996 Future Car Challenge</i> , Society of Automotive Engineers, SAE/SP-97/1234, Swan, J. et al., “Design and Development of

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Exhibit No.	Description of Exhibit
	Hyades, a Parallel Hybrid Vehicle for the 1996 FutureCar Challenge” (Feb. 1997), 23-30
BMW1025	<i>1997 Future Car Challenge</i> , Society of Automotive Engineers, SAE/SP-98/1359, Swan, J. et al., “Design and Development of Hyades, a Parallel Hybrid Electric Vehicle for the 1997 FutureCar Challenge” (Feb. 1998), 29-39
BMW1026	U.S. Provisional Appl. No. 60/100,095 (Filed Sep. 11, 1998)
BMW1027	Wakefield, E.H., Ph.D., <i>History of the Electric Automobile – Hybrid Electric Vehicles</i> , Society of Automotive Engineers, SAE/SP-98/3420 (1998), 17-34 (Chapter 2: The History of the Petro-Electric Vehicle)
BMW1028	Unnewehr, L.E. et al., “Hybrid Vehicle for Fuel Economy,” Society of Automotive Engineers, SAE/SP-76/0121 (1976)
BMW1029	Burke, A.F., “Hybrid/Electric Vehicle Design Options and Evaluations,” Society of Automotive Engineers, SAE/SP-92/0447, International Congress & Exposition, Detroit, Michigan (Feb. 24-28, 1992)
BMW1030	Duoba, M, “Challenges for the Vehicle Tester in Characterizing Hybrid Electric Vehicles,” 7 <sup>th</sup> CRC On Road Vehicle Emissions Workshop, San Diego, California (Apr. 9-11, 1997)
BMW1031	<i>Electric and Hybrid Vehicles Program, 18th Annual Report to Congress for Fiscal Year 1994</i> , U.S. Department of Energy (Apr. 1995)
BMW1032	Bates, B. et al., “Technology for Electric and Hybrid Vehicles,” Society of Automotive Engineers, SAE/SP-98/1331 (Feb. 1998)
BMW1033	Stodolsky, F. et al., “Strategies in Electric and Hybrid Vehicle Design,” Society of Automotive Engineers, SAE/SP-96/1156, Kozo, Y. et al., “Development of New Hybrid System – Dual System,” SAE/SP-96/0231 (Feb. 1996), 25-33
BMW1034	Leschly, K.O., <i>Hybrid Vehicle Potential Assessment, Volume 7: Hybrid Vehicle Review</i> , U.S. Department of Energy (Sep. 30, 1979)

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Exhibit No.	Description of Exhibit
BMW1035	Reserved
BMW1036	Masding, P.W., et al., "A microprocessor controlled gearbox for use in electric and hybrid-electric vehicles," <i>Transactions of the Institute of Measurement and Control</i> , Vol. 10, No. 4 (July –Sep. 1988), 177-86
BMW1037	Reserved
BMW1038	U.S. Patent No. 6,209,672 ("Severinsky '672")
BMW1039	Davis, G.W., Ph.D. et al., <i>Introduction to Automotive Powertrains</i> , Chapter 2: Road Loads (2000), 27-68
BMW1040	Ehsani, M. et al., "Propulsion System Design of Electric Vehicles," Texas A&M University, Department of Electrical Engineering (1996), 7-13
BMW1041	Ehsani, M. et al., "Propulsion System Design of Electric and Hybrid Vehicles," <i>IEEE Transactions on Industrial Electronics</i> , Vol. 44, No. 1 (Feb. 1997), 19-27
BMW1042	Bauer, H., ed., <i>Automotive Handbook</i> , Robert Bosch Gmbh (4th Ed. Oct. 1996), Excerpts
BMW1043	<i>Design Innovations in Electric and Hybrid Electric Vehicles</i> , Society of Automotive Engineers, SAE/SP-96/1089, Anderson, C., et al, "The Effects of APU Characteristics on the Design of Hybrid Control Strategies for Hybrid Electric Vehicles," SAE/SP-95/0493 (Feb. 1995), 65-71
BMW1044	U.S. Patent No. 5,656,921 ("Farrall")
BMW1045	Stone, R., <i>Introduction to Internal Combustion Engines</i> , Chapter 9: Turbocharging (2nd Ed. 1995), 324-53
BMW1046	Bauer, H., ed., <i>Automotive Handbook</i> , Robert Bosch Gmbh (4th Ed. Oct. 1996), Excerpts
BMW1047	Heisler, H., <i>Advanced Engine Technology</i> , Chapters 6.7-6.10 (1995), 315-47

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